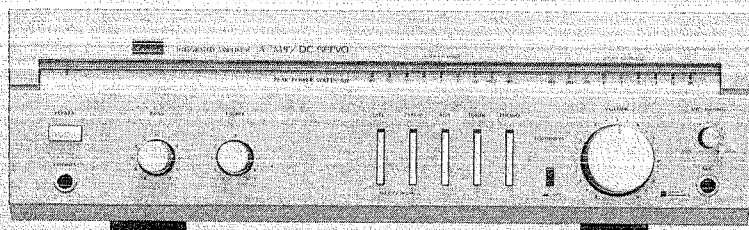


SERVICE MANUAL

INTEGRATED AMPLIFIER

SANSUI A-M9



● SPECIFICATIONS

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz,
with no more than 0.07 % total harmonic distortion
70 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.07 % at or below rated
min. RMS power output

Frequency response (at 1 watt)

. 10 to 60,000 Hz/+0.5 dB, -2 dB

RIAA curve deviation (PHONO, 30 Hz to 20 kHz)

. +0.5 dB, -0.5 dB

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms

(Max. input capability; 150 mV at 1 kHz, less than
0.1 % total harmonic distortion)

AUX, TUNER, TAPE PLAY

. 150 mV/47 kilohms

MIC 0.5 mV/10 kilohms

Output level (1 kHz)

TAPE REC 130 mV into 47 kilohms

Signal to noise ratio (short-circuit, A-network)

PHONO 72 dB

AUX, TUNER, TAPE PLAY

. 100 dB

Power requirements

Power voltage 120/220/240 V (50/60 Hz)

For U.S.A. & Canada

. 120 V (60 Hz)

Power consumption

. 230 watts 280 VA Rated

290 watts Maximum

Dimensions 345 mm (13-9/16") W

105 mm (4-7/8") H

248 mm (9-3/4") D

Weight 4.8 kg (10.6 lbs.) net

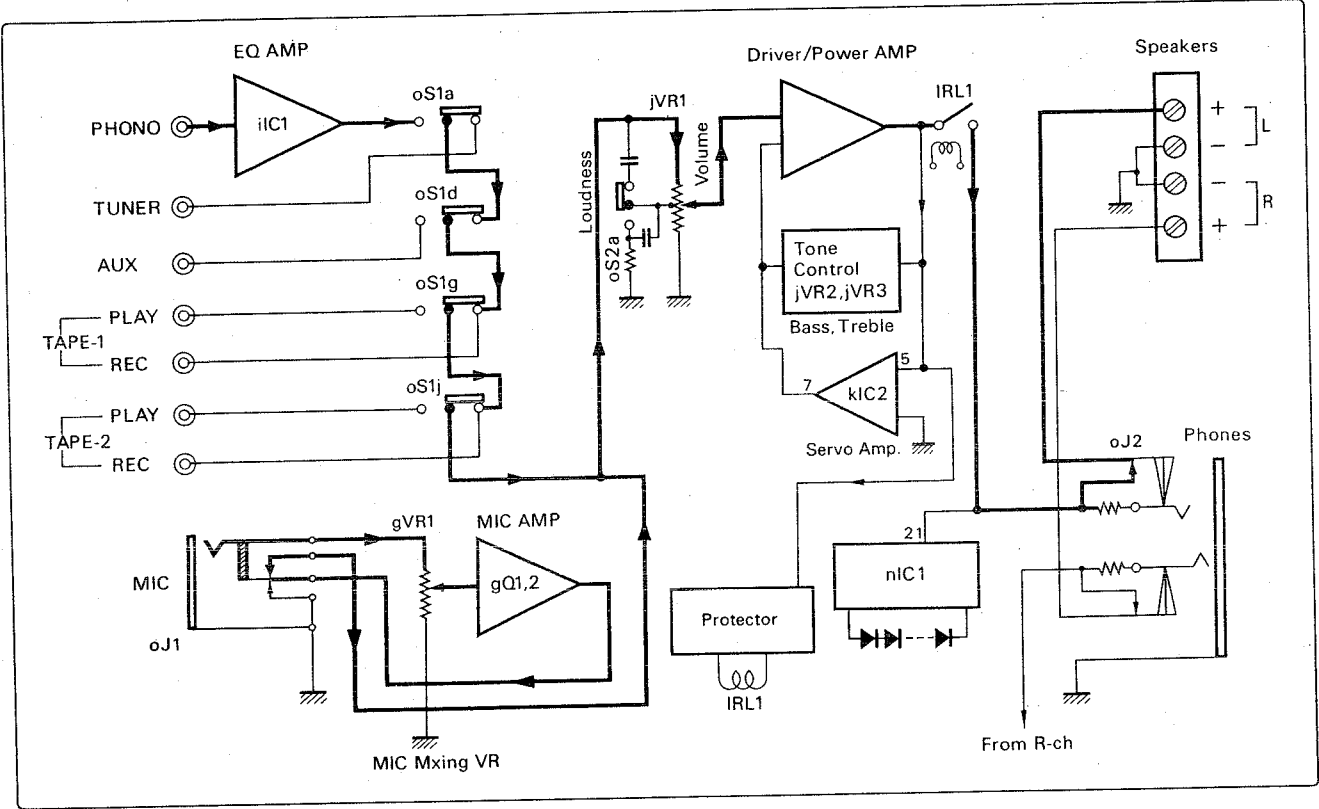
5.4 kg (11.9 lbs.) packed

* Design and specifications subject to changes without
notice for improvements.

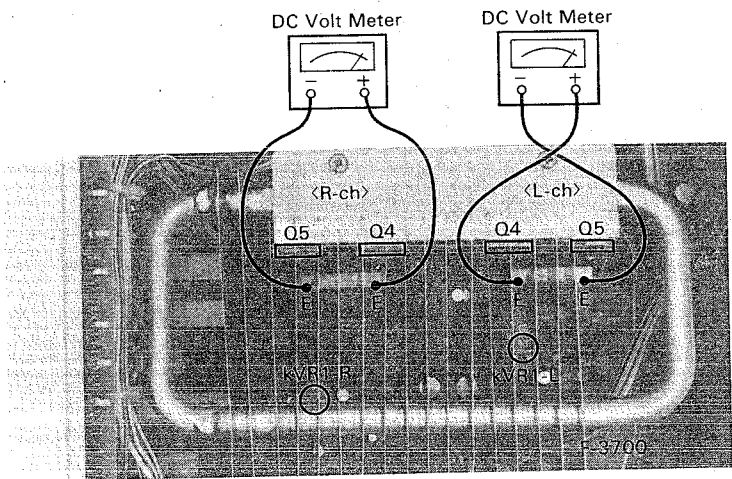
Sansui

SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM



2. BIAS CURRENT ADJUSTMENT (Refer to picture below)



Note:

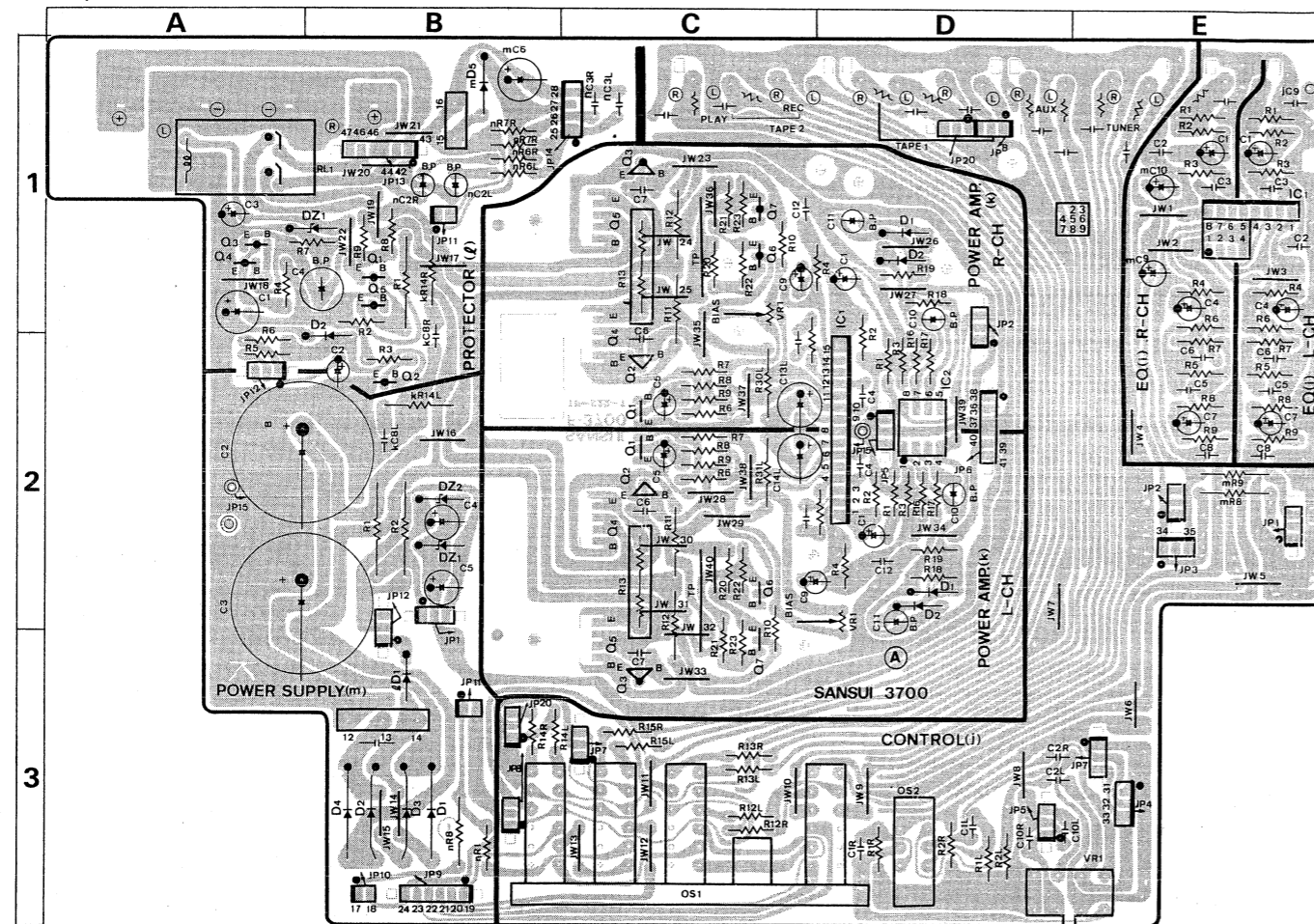
- 1. Room Temperature 18°C ~ 38°C
- 2. For adjustment, run the unit for more than 3 minutes after the power is switched on.
- 3. Before turning ON POWER switch, turn kVR1 on F-3700 fully counterclockwise.

| STEP | SUBJECT | MEASURE OUTPUT | ADJUST | ADJUST FOR | REMARKS |
|------|---------|--|-----------------------|------------|---|
| 1. | L-CH | Connect DC volt meter between emitters of kQ4, kQ5 on F-3700 | kVR1 (L-CH) F-3626 | DC 3mV | This bias current adjustment converts current value into voltage by ohms law. |
| 2. | R-CH | Same as above | kVR1 (R-CH) F-3626 | DC 3 mV | |

3. PARTS LOCATION & PARTS LIST

3-1. F-3700 EQ Amp./Power Amp. Circuit (Stock No. 00686601)

Component Side



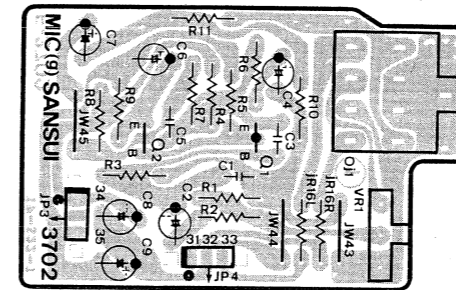
Parts List

| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-------------|-----------|----------------------------------|--------------|-----------|-------------------------|-----------|-----------|-------------------------|
| jVR1 | 46170200 | 100k Ω (B) x 2 VR, VOLUME | •Transistor | | | mC2 | 08301800 | 6800 μ F 63V E.C. |
| •Transistor | | | IQ1 | 03010901 | 2SA992 | mC3 | 08301800 | 6800 μ F 63V E.C. |
| kQ1 | 03067401 | 2SC1845 | IQ2 | 07194701 | 2SA1015 | oS1 | 46164800 | Push SW, SELECTOR |
| kQ2 | 07206401 | 2SD600 | IQ3 | 07194701 | 2SA1015 | oS2 | 46164900 | Push SW, LOUDNESS |
| kQ3 | 07206301 | 2SB631 | IQ4 | 07194701 | 2SA1015 | | 07249000 | 2P Input Terminal Board |
| kQ4 | 46085301 | 2SC2581 | IQ5 | 03010901 | 2SA992 | | 07249100 | 4P Input Terminal Board |
| or 07203301 | | 2SC2579 | •Diode | | | | 46118300 | Speaker Terminal Board |
| kQ5 | 46085401 | 2SA1106 | ID1 | 03117600 | 1S2473D | •IC | | |
| or 07203201 | | 2SA1104 | ID2 | 03117600 | 1S2473D | iIC1 | 46078900 | M5218L |
| kQ6 | 07194801 | 2SC1815 | •Zener Diode | | | | | |
| kQ7 | 07194701 | 2SA1015 | IDZ1 | 03180200 | RD24E-B | | | |
| •IC | | | IR1 | 00186300 | 1.2k Ω 2W N.I.R. | | | |
| kIC1 | 46253800 | STK3082 | IC4 | 08460200 | 220 μ F 6.3V E.C. | | | |
| kIC2 | 03607700 | NJM4558D | IRL1 | 46254900 | Relay | | | |
| kR13 | 00091700 | 0.33 Ω x 2 5W Ce.R. | •Diode | | | | | |
| kR14 | 00179000 | 10 Ω 1W N.I.R. | mD1~4 | 03115300 | 30D-2 | | | |
| kC10 | 08450900 | 4.7 μ F 16V E.B. | •Zener Diode | | | | | |
| kC11 | 08450100 | 10 μ F 6.3V E.C. | mDZ2 | 03180000 | RD22E-B | | | |
| kC13 | 46306200 | 10 μ F 6.3V E.C. | mR1 | 00187400 | 1.8k Ω 2W N.I.R. | | | |
| kC14 | 46306200 | 10 μ F 6.3V E.C. | mR2 | 00187400 | 1.8k Ω 2W N.I.R. | | | |
| kVR1 | 07240900 | 500 Ω (B) SVR, bias | | | | | | |

•Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

3-2. F-3702 Mic Amp. Circuit Board (Stock No. 00686801)

Component Side

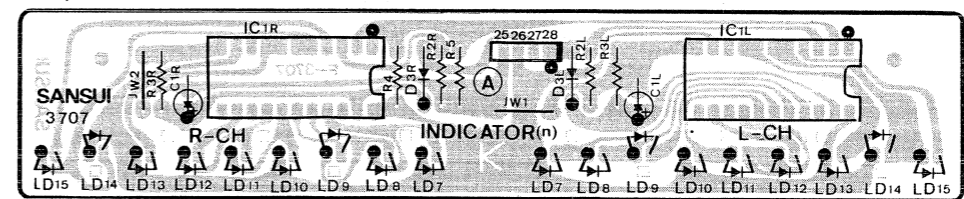


Parts List

| Parts No. | Stock No. | Description |
|-------------|-----------|----------------------------------|
| oJ1 | 46164600 | Jack, MIC |
| •Transistor | | |
| gQ1 | 03010901 | 2SA992 |
| gQ2 | 07225401 | 2SC2320L |
| gC5 | 46137800 | 680pF 50V C.C. |
| gVR1 | 07106701 | 20k Ω (A) SVR, MIC MIXING |

3-3. F-3707 Level Indicator Circuit Board (Stock No. 00687301)

Component Side



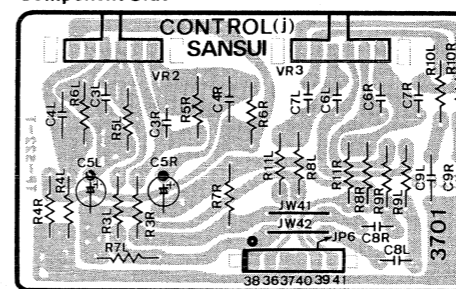
Parts List

| Parts No. | Stock No. | Description | Parts No. | Stock No. | Description |
|-----------|-----------|-------------|-----------|-----------|--------------------------------|
| •IC | | | nLD7~15 | 46169300 | Light Emitting Diode SEL-1210S |
| nIC1 | 07246000 | IR2431 | nC2 | 08451700 | 1 μ F 50V E.B. |
| •Diode | | | | | |
| nD3 | 03103300 | 1N60 | | | |

•Note: The circuit board, F-3701, F-3703, F-3704, F-3705 & F-3706 are not supplied as the assembled. However, the individual parts on the circuit board are provided by orders.

3-4. F-3701 Tone Control Circuit Board

Component Side



Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|-----------------------------------|
| jVR2, 3 | 46254800 | 50k Ω (C) VR, BASS, TREBLE |
| jC6 | 46137800 | 680pF 50V C.C. |

3-6. F-3704 Indicator Circuit Board

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|-----------------------------|
| nLD1~5 | 46095200 | Light Emitting Diode TLR123 |

3-7. F-3705 Power Fuse Circuit Board

Parts List

| Parts No. | Stock No. | Description |
|-----------|-----------|------------------|
| pF1 | 07189100 | Fuse 5A (120V) |
| | 07188700 | Fuse 2.5A (240V) |

3-8. F-3706 Power Indicator Circuit Board

Parts List

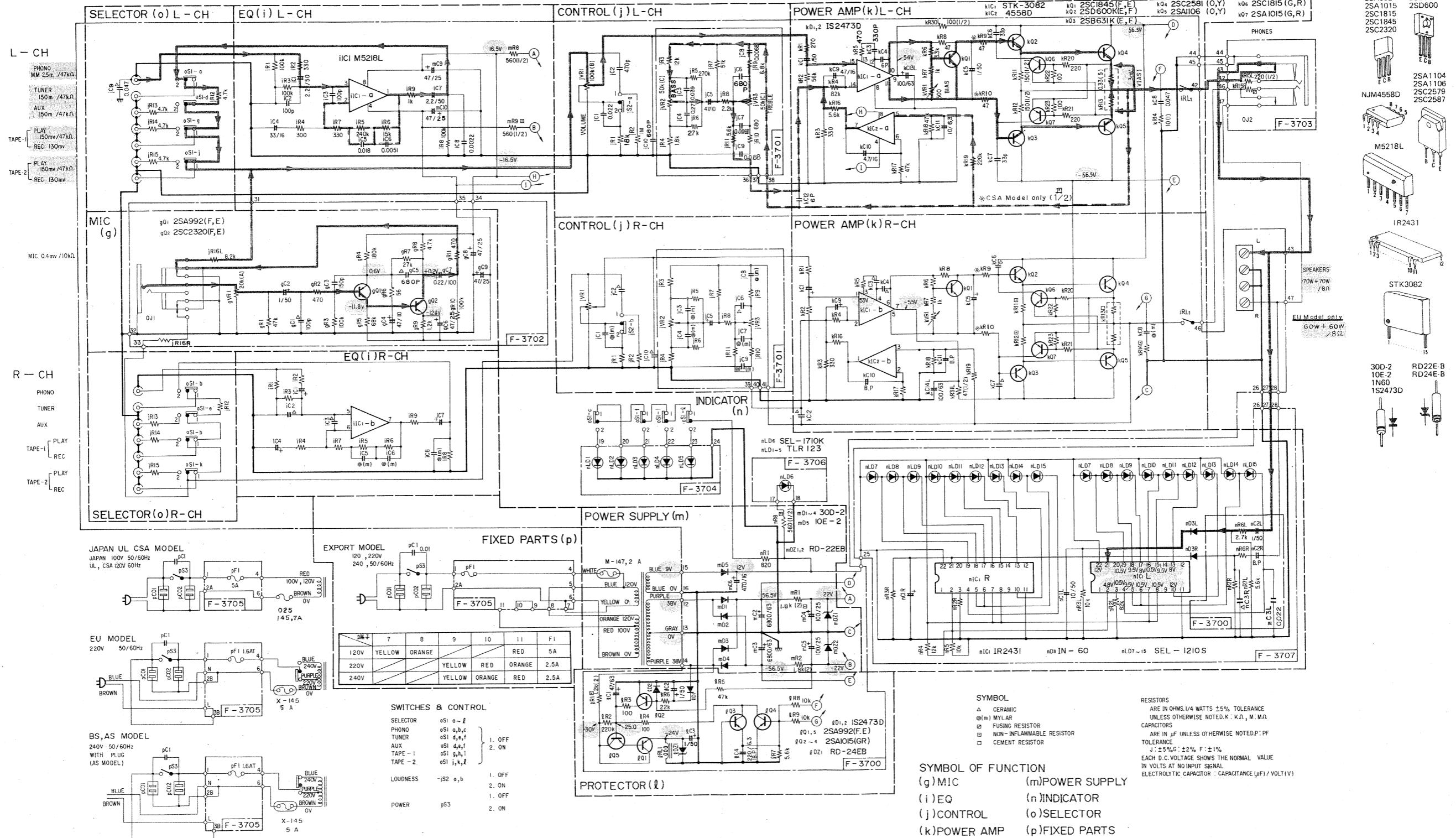
| Parts No. | Stock No. | Description |
|-----------|-----------|----------------------|
| nLD6 | 07209100 | Light Emitting Diode |

• Abbreviations

| | |
|--|---|
| C.R. : Carbon Resistor | E.B. : Bi-Polar Electrolytic Capacitor |
| S.R. : Solid Resistor | E.B.L. : Low Leak Bi-Polar Electrolytic Capacitor |
| Ce.R. : Cement Resistor | F.C. : Film Capacitor |
| M.R. : Metal Film Resistor | Ta.C. : Tantalum Capacitor |
| F.R. : Fusing Resistor | F.C. : Film Capacitor |
| N.I.R. : Non-Inflammable Resistor | M.P. : Metallized Paper Capacitor |
| C.C. : Ceramic Capacitor | P.C. : Polystyrene Capacitor |
| C.T. : Ceramic Capacitor, Temperature Compensation | G.C. : Gimmic Capacitor |
| E.C. : Electrolytic Capacitor | V.R. : Variable Resistor |
| E.L. : Low Leak Electrolytic Capacitor | S.V.R. : Semi Variable Resistor |
| | SW. : Switch |

4. SCHEMATIC DIAGRAM

* Design and specifications subject to change without notice for improvement.
 * La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 * Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



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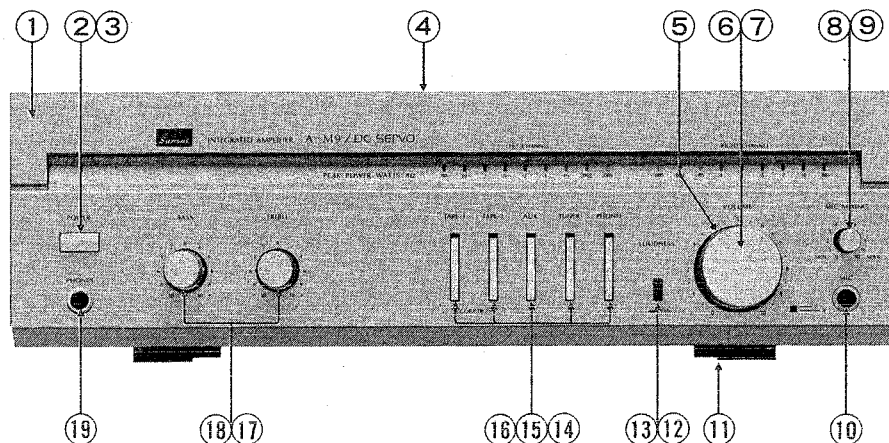
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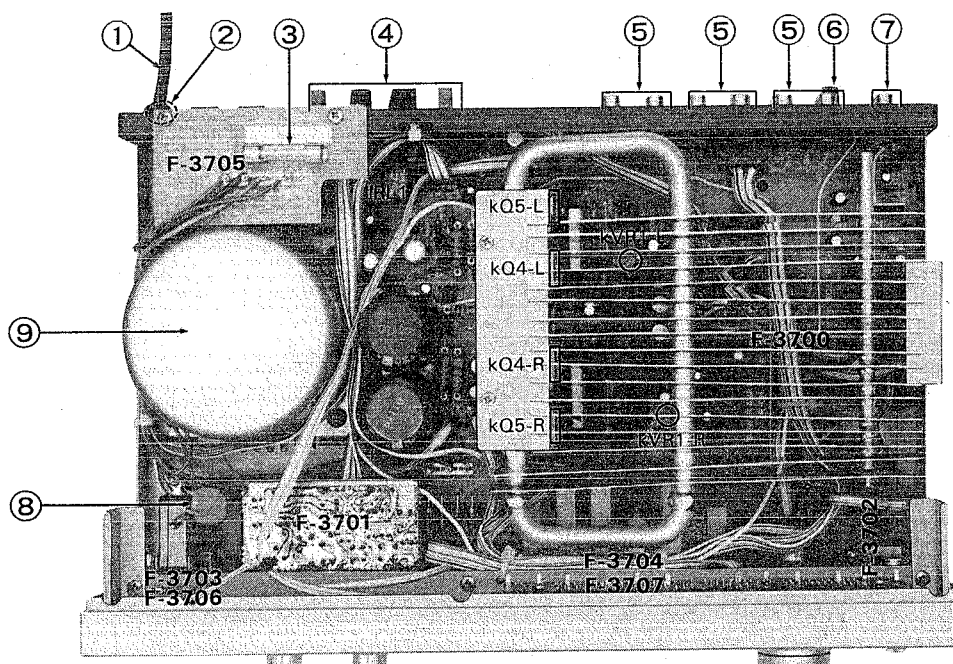
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5. OTHER PARTS

5-1. Front View



5-2. Top View



Parts List <Front View>

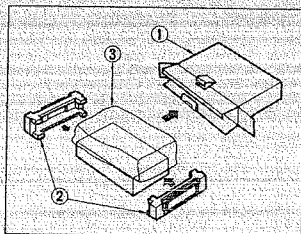
| Parts No. | Stock No. | Description |
|-----------|-----------|------------------------------|
| 1 | 07887300 | Front Panel Ass'y |
| 2 | 07828200 | Push Knob, } POWER |
| 3 | 07224300 | Push SW., } |
| 4 | 07884510 | Bonnet |
| 5 | 07831900 | Knob, master VR R-ch |
| 6 | 07832000 | Knob, master VR L-ch |
| 7 | 46170200 | 100kΩ (B) VR, master |
| 8 | 07834700 | Knob, MIC VR |
| 9 | 07106701 | 20kΩ (A) VR, MIC |
| 10 | 46164600 | Jack, MIC |
| 11 | 07847500 | Leg |
| 12 | 07828800 | Push Knob, } LOUDNESS |
| 13 | 46164900 | Push SW., } |
| 14 | 07828300 | Push Knob, } TAPE-1, 2, AUX, |
| 15 | 46164800 | Push SW., } TUNER, PHONO |
| 16 | 46169300 | L.E.D. SEL-1210S |
| 17 | 07884300 | Knob, } TREBLE, BASS |
| 18 | 46254800 | 50kΩ VR, } |
| 19 | 46164700 | Jack, PHONES |

Parts List <Top View>

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------------------------|
| 1 | 38004700 | Power Supply Cord |
| 2 | 39106000 | Strain Relief |
| 3 | 07189100 | Fuse 5A (120 V) |
| | 07188700 | Fuse 2.5A (240 V) |
| 4 | 46118300 | 4P Output Terminal, speaker |
| 5 | 07249100 | 4P Input Terminal, TUNER, AUX, TAPE |
| 6 | 22301500 | Gnd Terminal |
| 7 | 07249000 | 2P Input Terminal |
| 8 | 08302600 | 0.01μF 125V C.C. |
| 9 | 15006901 | Power Transformer |

6. PACKING LIST

| Parts No. | Stock No. | Description |
|-----------|-----------|-------------------|
| 1 | 07886900 | Carton Case |
| 2 | 07884400 | Styrofoam Packing |
| 3 | 09453300 | Vinyl Cover |



7. ACCESSORY LIST

| Stock No. | Description |
|-----------|-----------------------|
| 46256400 | Operating Instruction |



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